

Document	:	DvbStreamBuffering
Author	:	M. Majoor
Subject	:	DLL for SAA7146A based budget cards for setting up stream data buffering

Revision/Date	Author	Description
20040627	M.Majoor	Initial draft

DvbStreamBuffering.dll is a dynamic link library which can be used by application programmers to setup the stream buffering mechanism for SAA7146A based budget cards.

Since the full source code is included with the dll, programmers should be able to retrieve all relevant information from that. For those which just want to use the dll, without browsing through source code, this document gives the basic information on how to use it.

Basic information:

- All function/procedures in the dll should be accessed using the **stdcall** calling convention.
- When accessing the dll functions by name, be aware that these names are case sensitive!
- All pointer types require that the caller has allocated the memory for the result to be returned.
- A boolean is defined as being a single byte.

DVBSETUPBUFFERING (index 1, name 'DvbSetupBuffering')			
function DvbSetupBuffering(CardHandle, Initialize, TunerType, TunerReset, IsSlave, BufferTime, BufferId)			
IN	THANDLE	CardHandle	Windows handle to SAA7146A driver.
	BOOLEAN	Initialize	TRUE if initialization allowed, FALSE otherwise. Note: No initialization is done if a 'slave' configuration is used.
	BYTE	TunerType	Tuner to address (depends on card in system) Use '0' for cards with a BSRU6 tuner. Use '1' for cards with a SU1278 tuner.
	BYTE	TunerReset	OPx to use for a reset (depends on card in system) Typically '2' for cards which support it (Nova/TTPClineBudget), and '255' for cards which don't have a reset mechanism (eg. Terratec Cinergy 1200 DVB-S)
	PBOOLEAN	IsSlave	IN: FALSE for forcing master mode. TRUE for auto detection master/slave. OUT: When set to TRUE (auto detection) a result is returned indicating what the actual operation is (FALSE = acting as master, TRUE = acting as slave).
	PWORD	BufferTime	IN: Time (in ms) for the buffering to be acquired (max 5000 ms). OUT: The actual buffering time acquired by the buffers.
OUT	BOOLEAN		TRUE if success FALSE if no success (typically incorrect tuner type)
	PDWORD	BufferId	Buffer identifier (DMA) were data is being stored. This identifier is to be used for calls to the driver when data is being retrieved.

DVBGETREMOTECONTROL (index 2, name 'DvbGetRemoteControl')			
function DvbGetRemoteControl(CardHandle, DeviceId, Command)			
IN	THANDLE	CardHandle	Windows handle to SAA7146A driver.
OUT	BOOLEAN		TRUE if new remote control data available FALSE if new data available
	PBYTE	DeviceId	Device received (part of received RC5 data)
	PBYTE	Command	Command received (part of received RC5 data)